

WHAT IS CLAIMED IS:

1. A multi-functional device connected to a network, and having a plurality of functions including at least a first function and a second function, said
5 device comprising:

registration means for transmitting information on the function of the device to a directory server on said network by a predetermined network protocol, and registering the information in said directory server;

10 generation means for generating information on a third function realized by combining said first function and second function; and

control means for registering the information generated by said generation means in said directory
15 server by said registration means.

2. The device according to claim 1 wherein said control means registers either said first function or said second function in said directory server by said
20 registration means.

3. The device according to claim 1 wherein said first function is a printer function for providing a printer service.

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4. The device according to claim 1 wherein said second function is a scanner function for providing a

scanner service.

5 5. The device according to claim 1 wherein said
third function is a copy function for providing a copy
service.

6. The device according to claim 1 wherein said
network protocol is SLP or LDAP.

10 7. A network device connected to a network, and
having a plurality of services including at least a
first service and a second service, said device
comprising:

15 registration means for transmitting information on
the service of the device to a directory server on said
network by a predetermined network protocol, and
registering the information in said directory server;

20 generation means for generating information on a
third service realized by combining said first service
and second service; and

 control means for registering the information
generated by said generation means in said directory
server by said registration means.

25 8. A network device which provides at least a
first service, comprising:

 registration means for transmitting information on

the service of the device to a directory server on said network by a predetermined network protocol, and registering the information in said directory server;

5 selection means for selecting another network device on said network;

 generation means for generating information on a third service realized by combining a second service of the network device selected by said selection means with said first service; and

10 control means for registering the information generated by said generation means in said directory server by said registration means.

15 9. The device according to claim 8 wherein said selection means selects the device based on a location of said another device.

20 10. The device according to claim 9 wherein said selection means selects the device based on a location registered in said directory server.

25 11. The device according to claim 8 wherein said first service is a printer service or a scanner service.

 12. The device according to claim 8 wherein said second service is a printer service or a scanner

service.

13. The device according to claim 8 wherein said third service is a remote copy service.

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14. A controlling method of a multi-functional device connected to a network, and having a plurality of functions including at least a first function and a second function, said method comprising:

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a registration step for transmitting information on the function of the device to a directory server on said network by a predetermined network protocol, and registering the information in said directory server;

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a generation step for generating information on a third function realized by combining said first function and second function; and

a control step for registering the information generated by said generation step in said directory server by said registration step.

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15. The method according to claim 14 wherein said control step registers either said first function or said second function in said directory server by said registration step.

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16. The method according to claim 14 wherein said first function is a printer function for providing a

printer service.

17. The method according to claim 14 wherein said
second function is a scanner function for providing a
5 scanner service.

18. The method according to claim 14 wherein said
third function is a copy function for providing a copy
10 service.

19. The method according to claim 14 wherein said
network protocol is SLP or LDAP.

20. A controlling method of a network device
15 connected to a network, and having a plurality of
services including at least a first service and a
second service, said method comprising:

a registration step for transmitting information
on the service of the device to a directory server on
20 said network by a predetermined network protocol, and
registering the information in said directory server;

a generation step for generating information on a
third service realized by combining said first service
and second service; and

25 a control step for registering the information
generated by said generation step in said directory
server by said registration step.

21. A controlling method of a network device which provides at least a first service, said method comprising:

5 a registration step for transmitting information on the service of the device to a directory server on said network by a predetermined network protocol, and registering the information in said directory server;

a selection step for selecting another network device on said network;

10 a generation step for generating information on a third service realized by combining a second service of the network device selected by said selection step with said first service; and

15 a control step for registering the information generated by said generation step in said directory server by said registration step.

22. The method according to claim 21 wherein said selection step selects the device based on a location of said another device.

23. The method according to claim 22 wherein said selection step selects the device based on a location registered in said directory server.

25 24. The method according to claim 21 wherein said first service is a printer service or a scanner service.

25. The method according to claim 21 wherein said second service is a printer service or a scanner service.

5 26. The method according to claim 21 wherein said third service is a remote copy service.

10 27. A computer program executed by a computer of a multi-functional device connected to a network and having a plurality of functions including at least a first function and a second function, said program comprising:

15 a registration step for transmitting information on the function of the device to a directory server on said network by a predetermined network protocol, and registering the information in said directory server;

 a generation step for generating information on a third function realized by combining said first function and second function; and

20 a control step for registering the information generated by said generation step in said directory server by said registration step.

25 28. A computer readable storage medium in which the computer program according to claim 27 is stored.

 29. A computer program executed by a computer of

a network device which provides at least a first service, said program comprising:

5 a registration step for transmitting information on the service of the device to a directory server on said network by a predetermined network protocol, and registering the information in said directory server;

a selection step for selecting another network device on said network;

10 a generation step for generating information on a third service realized by combining a second service of the network device selected by said selection step with said first service; and

15 a control step for registering the information generated by said generation step in said directory server by said registration step.

30. A computer readable storage medium in which the computer program according to claim 29 is stored.